PATENT COOPERATION TREATY

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(Chapter II of the Patent Cooperation Treaty)

(PCT Art	ticle 36 and Rule 70)			
Applicant's or agent's file reference				
P 24341 PC 00 FORFURTHER	RACTION See Form RET/IREA/416			
International application No.	date (day/month/year) Profity (date (day/month/year)			
International Patent Classification (IPC) or national alassis	.04.06.2003			
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Applicant				
Grenland Frammaes AS et al.				
1. This report is the international preliminary examination	a report, established by this International Preliminary Examining			
Authority under Article 35 and transmitted to the appli	icant according to Article 26			
2. Ims REPORT consists of a total of 4	heets including this			
This report is also accompanied by ANNEXES, compri	ising:			
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sent to the applicant and to the Internation	nal Bureau) a total of 2 sheets, as follows:			
sneets of the description, claims an	d/or drawings which have been amended and are the basis of this report			
	1 Section 607 of the			
Supplemental Box 4	its, but which this Authority considers contain an amendment that goes tional application as filed, as indicated in item 4 of Box No. I and the			
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4. This report contains indications relating to the following	itama			
Box No. I Basis of the report	nems:			
Box No. II Priority				
Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention				
The state of the s				
V V				
applicability; citations and explanations supporting such statement Box No. VI Certain documents cited				
Box No. VII Certain defects in the international application				
Box No. VIII Certain observations on the international application				
observations on the inte	anational application			
Date of submission of the demand	Date of complete			
	Date of completion of this report			
20.01.2005	22.00.00			
Name and mailing address of the IPEA/SE	22.09.2005			
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	Authorized officer			
S-102 42 STOCKHOLM				
	Carl Fröderberg/EK Telephone No. +46 8 782 25 00			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

Box No. I	Basis of the report	PCT/NO2004/000153
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- 3	publication of the international application (Rule 12.4(a))	
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO2004/000153

Box No. V	Reasoned statement : citations and explana	nent under Article 35(2) with regard to nove planations supporting such statement		velty, inventive step or industrial applicability;	
1. Statement			and statement	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Novel	ty (N)	Claims Claims	1-7	YE	
Invent	ive step (IS)	Claims Claims	1-7	NO YES	
Industr	rial applicability (IA)	Claims Claims	1-7	NO YES NO	

2. Citations and explanations (Rule 70.7)

The most relevant of the documents cited in the International Search Report:

D1: US 4395178

The claimed invention relates to a personnel capsule device for transferring personnel between a first vessel and a second vessel or an offshore installation. A guideline is connected between an attachment point on the personnel capsule device and the vessel. The capsule device (1) has a downwardly open internal conical enclosure (8). The open enclosure (8) has its largest cross section facing downwards. A conical positioning and landing device (4) protrudes upwardly from the first vessel (2) and into the open enclosure (8) when the capsule device (1) is in its docked position. The purpose of the invention is to solve the problem with insecure and/or expensive personnel transfer between vessels at sea.

D1, the closest prior art, discloses a transfer system to move personnel or cargo between a movable vessel (22), such as a boat, and a stationary platform (10). The personnel or cargo is transported in a carrier that is connected to the platform via an extendable and retractable intermediate uphaul line (16) and to the vessel via a downhaul line (36). When the carrier is being lifted from the vessel, the downhaul line is payed out at a controlled rate and the uphaul line is retracted to keep the carrier out of contact with the vessel which may be rising or falling due to wave action of the water. At a predetermined elevation, the tension in the downhaul line is decreased so that the uphaul line retracts to

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box $\,V\,$

move the carrier out of the area of possible contact with the vessel. The reverse operation is followed to move the carrier from the platform to the vessel. Preferably, the downhaul means comprises a downhaul cable, and the downhaul means has namely: a velocity retracting mode where said downhaul cable is retracted at a controlled velocity, a velocity controlled extending mode where said downhaul cable is extended at a controlled velocity and a low tension mode where the downhaul cable is extended or retracted selectively to alleviate slack in the cable where there is oscillating movement between the carrier and the platform. Furthermore, the bottom surface (42) of the carrier slopes downwardly and inwardly in a configuration of truncated cone. The vessel is provided with a landing pad (26) to engage the bottom surface of the carrier. The landing pad (26) should provide some cushioning for the carrier (24), and as shown herein it comprises a plurality of pneumatic cushions (62) arranged in a generally circular configuration to engage the lower peripheral surface portion (42) housing (38). of the carrier

The personnel capsule device according to claims 1-6 differs from the transfer system to move personnel or cargo between a movable vessel and a stationary platform described in D1 since it is mentioned in claim 1 that positioning conical enclosure (8) has its largest cross section facing downwards and not upwards as in D1. However, it must be considered obvious to turn the positioning cone, possibly a truncated cone, either with the cone base down as in claim 1 or with the cone base upward as in D1. Therefore, the subject matter of claims 1-6 is not considered to involve an inventive step.

Claims

- A personnel capsule device (1) for transferring 1. personnel from a first vessel (2) and to an offshore installation (40) or to another ship by means of a lifting device (44), where the first vessel (2) is equipped with a to the capsule device (1) complementary fitting positioning and landing device (4), where shock absorbing material (32) is provided between the positioning and landing device (4) and the capsule device (1), characterized 10 the capsule device (1) has an downwardly open internal conical enclosure (8), the open enclosure (8) having its largest cross section facing downwards, and where the positioning and landing device (4) protrudes upwardly from the first vessel (2) and into the open enclosure 15 (8) when the capsule device (1) is in its docked position.
- A device according to Claim 1,
 c h a r a c t e r i z e d i n that the
 positioning and landing device (4) is formed as a possibly truncated cone.
- 3. A device according to Claim 1,
 c h a r a c t e r i z e d i n that a guideline
 (36) connected to the first vessel (2) is directly or
 indirectly connected to the attachment point (42) of the
 lifting device (44) during at least part of the
 transfer.
- A device according to Claim 1,
 c h a r a c t e r i z e d i n that a specific
 tension is imparted to the guideline (36), at least
 during part of the transfer.

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- 5. A device according to Claim 4, c h a r a c t e r i z e d i n that the guideline (36) is connected to a constant tension winch (34) associated with the first vessel (2).
- 5 6. A device according to Claim 1, c h a r a c t e r i z e d i n that the capsule device (1) is provided with a space (14) designed so as to function as a lounge for the personnel to be transferred.
- 7. A device according to Claim 6, c h a r a c t e r i z e d i n that the space (14) is equipped with at least one passenger seat (22).